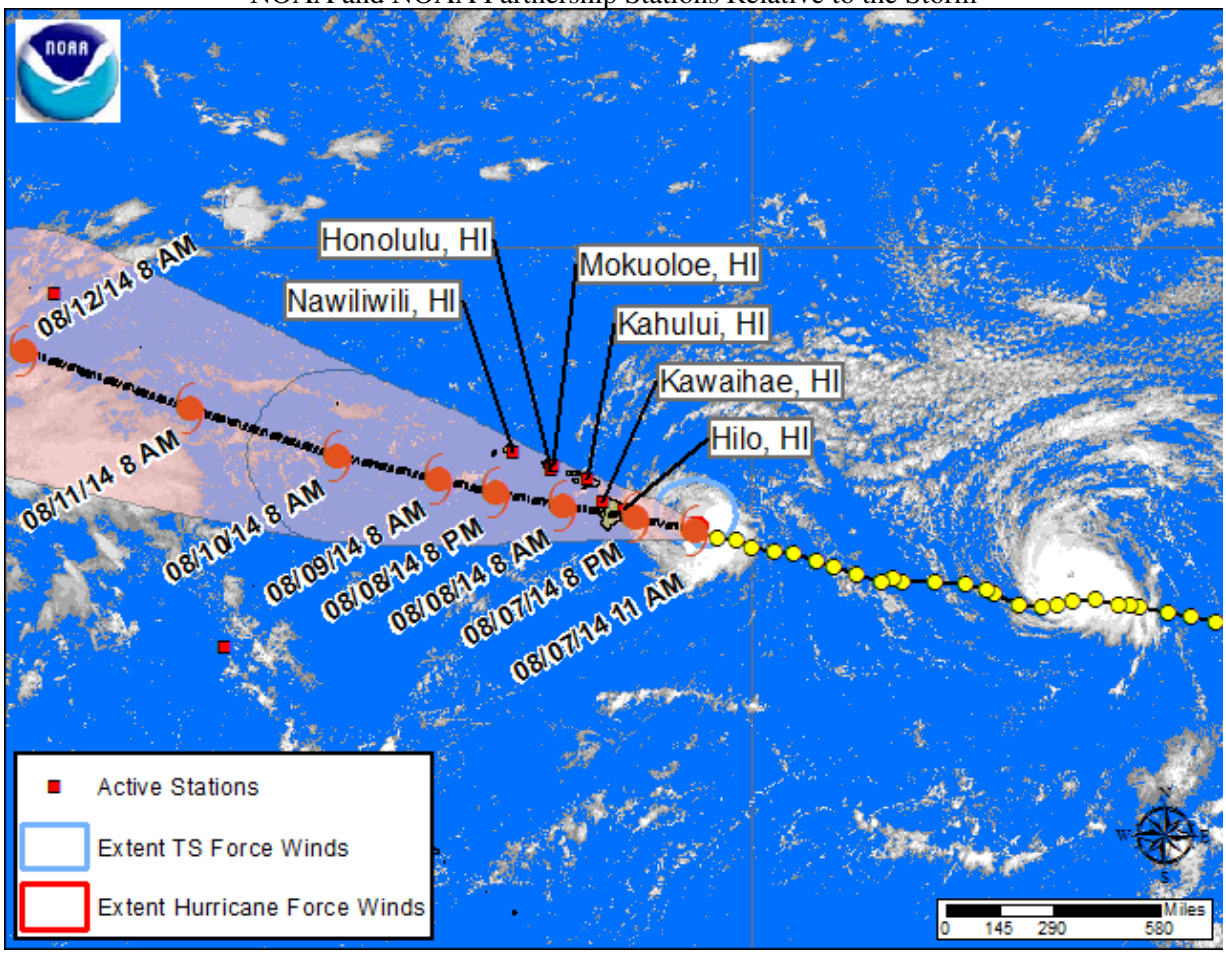
Hurricane ISELLE QuickLook
Posted: 12:00 HST 08/07/2014

NOAA and NOAA Partnership Stations Relative to the Storm



Storm Analysis

As of 08/07/2014 12:00 HST, water levels across the Hawaiian Islands range between 0 and 0.46 feet above predicted tide levels, with the highest residuals occurring in Hawaii County. Winds are steady in most locations, with gusts between 18 and 34 knots at Hilo and Kawaihae. Barometric pressure is slowly falling while following the normal diurnal cycle.

Water Level and Meteorological plots available below are updated automatically. A line denoting Mean Higher High Water (MHHW) is displayed to provide an approximate indication of when flooding inundation may occur.

For additional data, please see the Center for Operational Oceanographic Products & Services website. For more information or archived products and reports, please see the Storm QuickLook Homepage.

Analyst: AC

SELECT CENTRAL PACIFIC HURRICANE CENTER ADVISORY INFORMATION:

HURRICANE ISELLE ADVISORY NUMBER 31
NWS CENTRAL PACIFIC HURRICANE CENTER HONOLULU HI EP092014
1100 AM HST THU AUG 07 2014

...ISELLE WEAKER BUT REMAINS A SIGNIFICANT THREAT TO HAWAII...

WATCHES AND WARNINGS

CHANGES IN WATCHES AND WARNINGS WITH THIS ADVISORY...

NONE.

SUMMARY OF WATCHES AND WARNINGS IN EFFECT...

A HURRICANE WARNING IS IN EFFECT FOR...
* HAWAII COUNTY

A TROPICAL STORM WARNING IS IN EFFECT FOR...
* MAUI COUNTY...INCLUDING THE ISLANDS OF MAUI...MOLOKAI...LANAI...
AND KAHOOLAWE.
* OAHU
* KAUAI COUNTY INCLUDING THE ISLANDS OF KAUAI AND NIIHAU.

A HURRICANE WARNING MEANS THAT HURRICANE CONDITIONS ARE EXPECTED SOMEWHERE WITHIN THE WARNING AREA. PREPARATIONS TO PROTECT LIFE AND PROPERTY SHOULD BE RUSHED TO COMPLETION.

A TROPICAL STORM WARNING MEANS THAT TROPICAL STORM CONDITIONS ARE EXPECTED SOMEWHERE WITHIN THE WARNING AREA WITHIN 36 HOURS.

INTERESTS IN THE NORTHWEST HAWAIIAN ISLANDS SHOULD MONITOR THE PROGRESS OF ISELLE.

FOR STORM INFORMATION SPECIFIC TO YOUR AREA...PLEASE MONITOR PRODUCTS ISSUED BY THE NATIONAL WEATHER SERVICE OFFICE IN HONOLULU HAWAII.

DISCUSSION AND 48-HOUR OUTLOOK

AT 1100 AM HSTTHE CENTER OF HURRICANE ISELLE WAS LOCATED ABOUT 195 MI ESE OF HILO HAWAII. ISELLE CONTINUES TO MOVE TOWARD THE WEST-NORTHWEST NEAR 16 MPH AND THIS MOTION IS EXPECTED TO CONTINUE THROUGH FRIDAY. ON THE FORECAST TRACK...ISELLE WILL BE MOVING OVER THE BIG ISLAND TONIGHT...AND PASSING SOUTH OF THE SMALLER ISLANDS ON FRIDAY.

MAXIMUM SUSTAINED WINDS ARE NEAR 75 MPH WITH HIGHER GUSTS. WEAKENING IS FORECAST DURING THE NEXT 48 HOURS...AND ISELLE MAY WEAKEN TO A TROPICAL STORM TONIGHT.

HURRICANE FORCE WINDS EXTEND OUTWARD UP TO 35 MILES FROM THE CENTER...AND TROPICAL STORM FORCE WINDS EXTEND OUTWARD UP TO 140 MILES.

THE ESTIMATED MINIMUM CENTRAL PRESSURE IS 991 MB.

HAZARDS AFFECTING LAND

WIND...CONDITIONS WILL STEADILY DETERIORATE OVER THE BIG ISLAND THIS AFTERNOON...WITH TROPICAL STORM CONDITIONS EXPECTED TO ARRIVE WELL BEFORE DARK. HURRICANE CONDITIONS ARE LIKELY FOR PORTIONS OF THE BIG ISLAND TONIGHT. TROPICAL STORM CONDITIONS ARE EXPECTED OVER MAUI COUNTY TONIGHT...AND FOR OAHU LATE TONIGHT AND FRIDAY. TROPICAL STORM CONDITIONS ARE EXPECTED FOR KAUAI COUNTY LATER FRIDAY.

RAINFALL...RAINFALL TOTALS OF 5 TO 8 INCHES...WITH ISOLATED MAXIMUM AMOUNTS TO 12 INCHES...ARE EXPECTED ALONG THE TRACK OF ISELLE. THESE RAINS COULD CAUSE LIFE-THREATENING FLASH FLOODS AS WELL AS ROCK AND MUD SLIDES.

SURF...SWELLS GENERATED BY ISELLE WILL CONTINUE TO BUILD ALONG EAST FACING SHORES TONIGHT. VERY LARGE...DAMAGING SURF IS EXPECTED ALONG MAINLY EAST AND SOUTH SHORES STARTING EARLY THURSDAY.

STORM SURGE...THE COMBINATION OF STORM SURGE AND THE TIDE WILL CAUSE NORMALLY DRY AREAS NEAR THE COAST TO BE FLOODED BY RISING WATERS. THE WATER COULD REACH THE FOLLOWING HEIGHTS ABOVE GROUND IF THE PEAK SURGE OCCURS AT THE TIME OF HIGH TIDE...

BIG ISLAND WINDWARD AND KAU...1 TO 2 FT

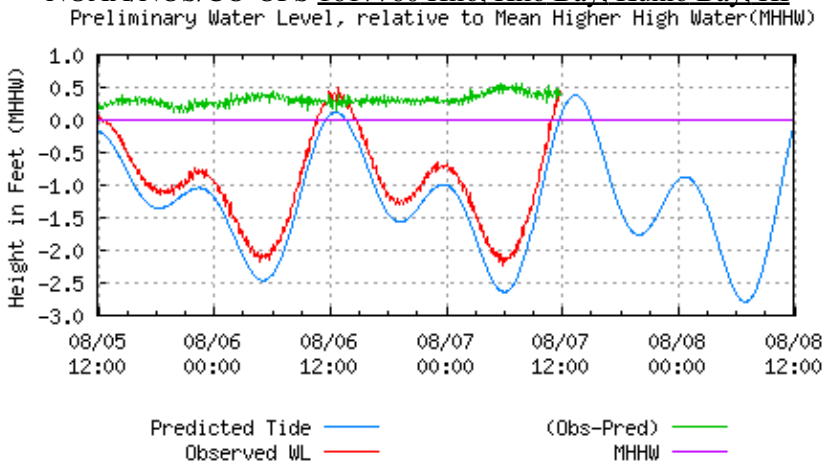
THE HIGHEST WATER WILL OCCUR ALONG THE IMMEDIATE COAST IN AREAS OF ONSHORE FLOW. THE SURGE WILL BE ACCOMPANIED BY LARGE AND DAMAGING WAVES. SURGE RELATED FLOODING DEPENDS ON THE RELATIVE TIMING OF THE SURGE AND THE TIDAL CYCLE...AND CAN VARY GREATLY OVER SHORT DISTANCES.

FORECASTER R BALLARD

For the purpose of timely release, data contained within this QuickLook have undergone a "limited" NOS Quality Assurance/Control; however, the data have not yet undergone final verification. All data subject to NOS verification.

Jump to: Hilo, Hilo Bay, Kuhio Bay - Water Level, Hilo, Hilo Bay, Kuhio Bay - Winds, Hilo, Hilo Bay, Kuhio Bay - Barometric, Kawaihae - Water Level, Kawaihae - Winds, Kahului, Kahului Harbor - Water Level, Kahului, Kahului Harbor - Winds, Kahului, Kahului Harbor - Barometric, Mokuoloe - Water Level, Mokuoloe - Winds, Mokuoloe - Barometric, Honolulu - Water Level, Honolulu - Winds, Honolulu - Barometric, Nawiliwili - Water Level

NOAA/NOS/CO-OPS 1617760 Hilo, Hilo Bay, Kuhio Bay, HI



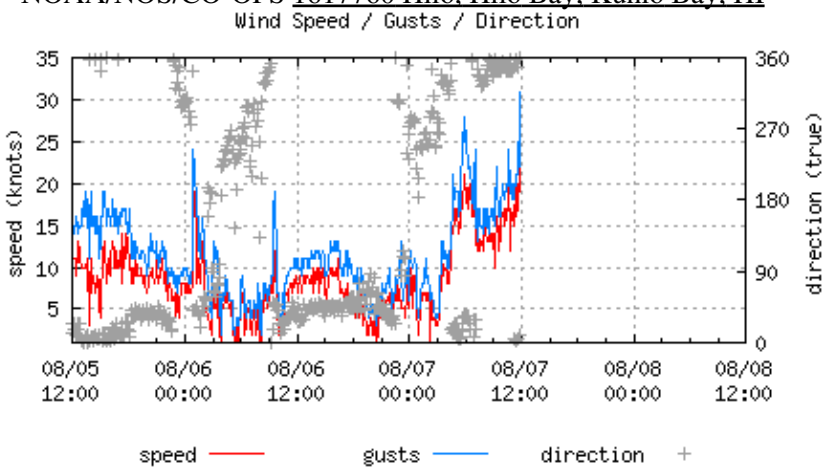
Last Observed Sample: 08/07/2014 11:48 (HST). Data relative to MHHW

Observed: 0.45 ft. Predicted: 0.05 ft. Residual: 0.40 ft.

Historical Maximum Water Level: Jan 20 1981, 1.37 ft.

Next High Tide: 08/07/2014 13:21 (HST), 0.38 ft.

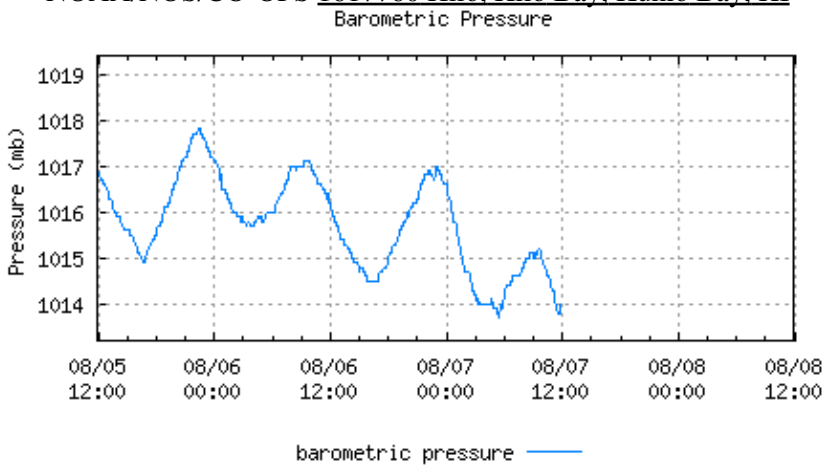
NOAA/NOS/CO-OPS 1617760 Hilo, Hilo Bay, Kuhio Bay, HI



Last Observed Sample: 08/07/2014 11:48 (HST)

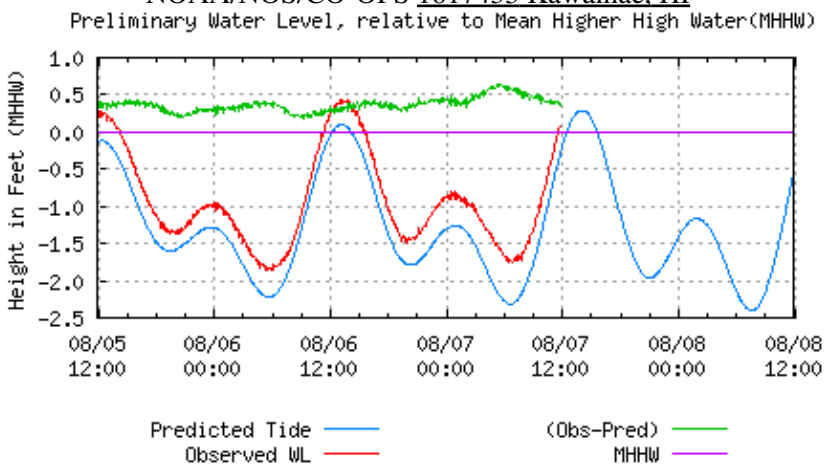
Wind Speed: 28 knots Gusts: 31 knots Direction: 10° T

NOAA/NOS/CO-OPS 1617760 Hilo, Hilo Bay, Kuhio Bay, HI



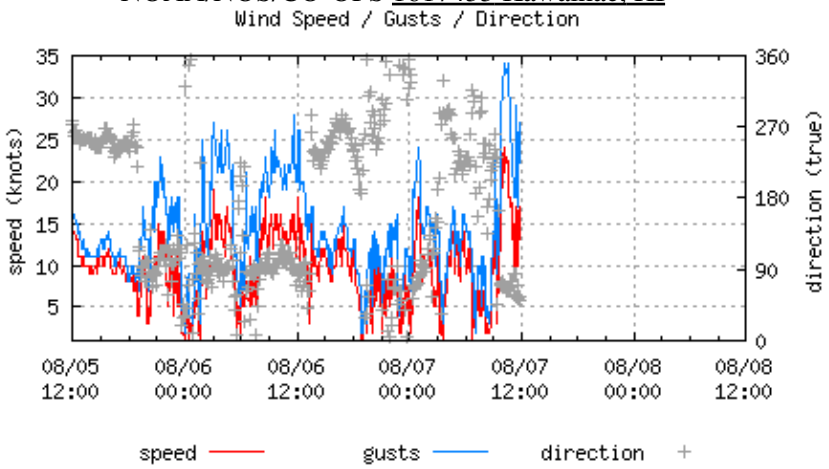
Last Observed Sample: 08/07/2014 11:48 (HST)
Barometric Pressure: 1014.0 mb

NOAA/NOS/CO-OPS 1617433 Kawaihae, HI



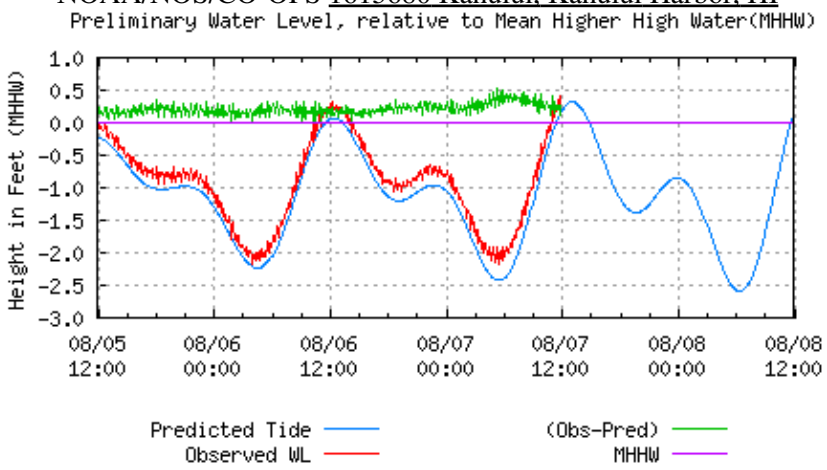
Last Observed Sample: 08/07/2014 11:48 (HST). Data relative to MHHW
Observed: 0.08 ft. Predicted: -0.28 ft. Residual: 0.36 ft.
Historical Maximum Water Level: Dec 13 2008, 1.22 ft.
Next High Tide: 08/07/2014 14:01 (HST), 0.29 ft.

NOAA/NOS/CO-OPS 1617433 Kawaihae, HI



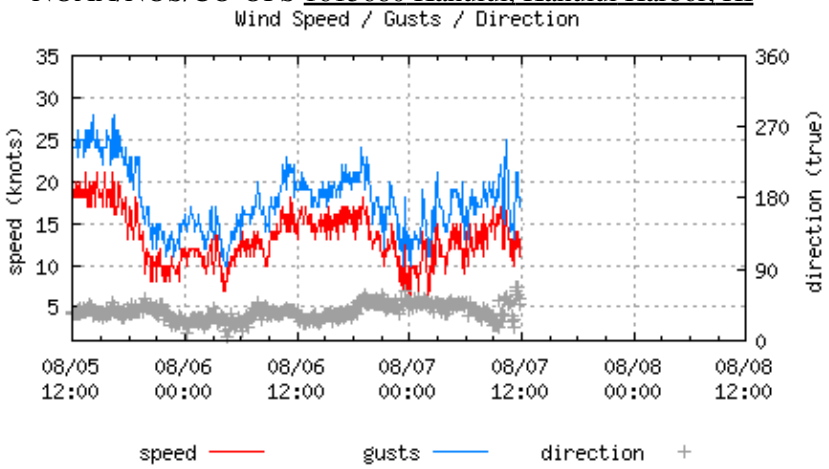
Last Observed Sample: 08/07/2014 11:48 (HST)
Wind Speed: 13 knots Gusts: 24 knots Direction: 50° T

NOAA/NOS/CO-OPS 1615680 Kahului, Kahului Harbor, HI



Last Observed Sample: 08/07/2014 11:48 (HST). Data relative to MHHW
Observed: 0.40 ft. Predicted: 0.15 ft. Residual: 0.25 ft.
Historical Maximum Water Level: Dec 20 1968, 1.23 ft.
Next High Tide: 08/07/2014 13:02 (HST), 0.32 ft.

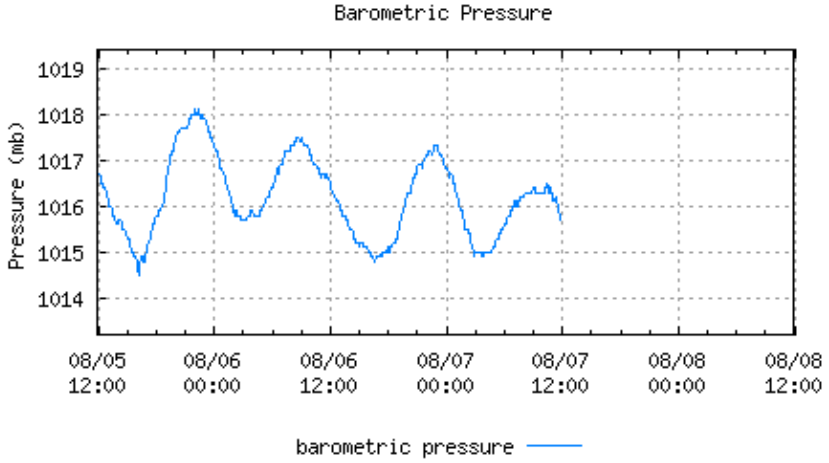
NOAA/NOS/CO-OPS 1615680 Kahului, Kahului Harbor, HI



Last Observed Sample: 08/07/2014 11:48 (HST)

Wind Speed: 13 knots Gusts: 17 knots Direction: 46° T

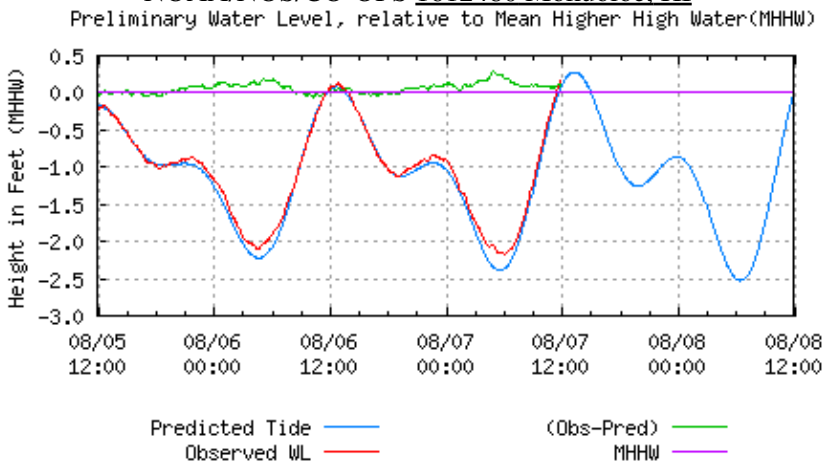
NOAA/NOS/CO-OPS 1615680 Kahului, Kahului Harbor, HI



Last Observed Sample: 08/07/2014 11:48 (HST)

Barometric Pressure: 1015.7 mb

NOAA/NOS/CO-OPS 1612480 Mokuoloe, HI



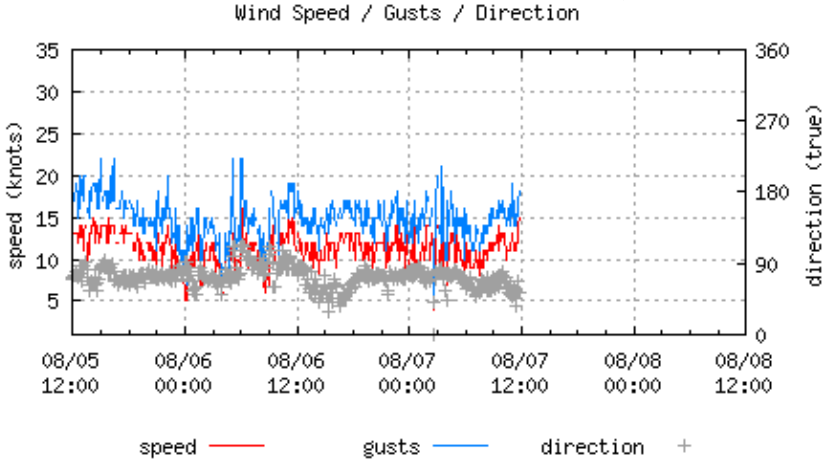
Last Observed Sample: 08/07/2014 11:48 (HST). Data relative to MHHW

Observed: 0.16 ft. Predicted: 0.06 ft. Residual: 0.10 ft.

Historical Maximum Water Level: Jan 8 1974, 1.46 ft.

Next High Tide: 08/07/2014 13:14 (HST), 0.28 ft.

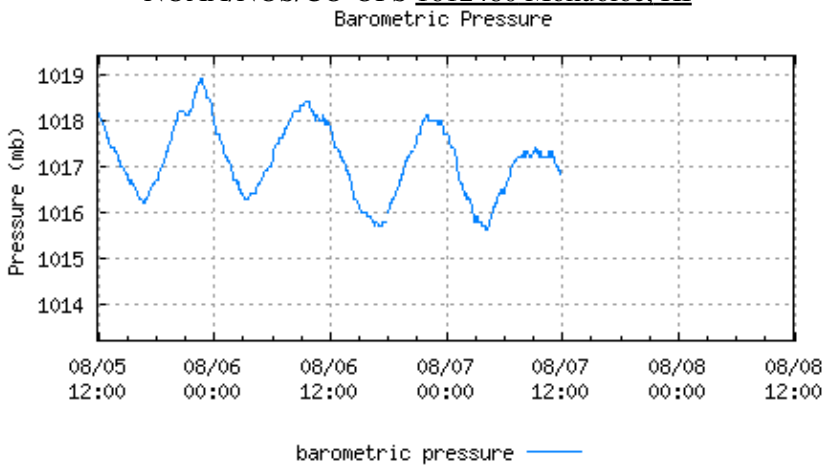
NOAA/NOS/CO-OPS 1612480 Mokuoloe, HI



Last Observed Sample: 08/07/2014 11:48 (HST)

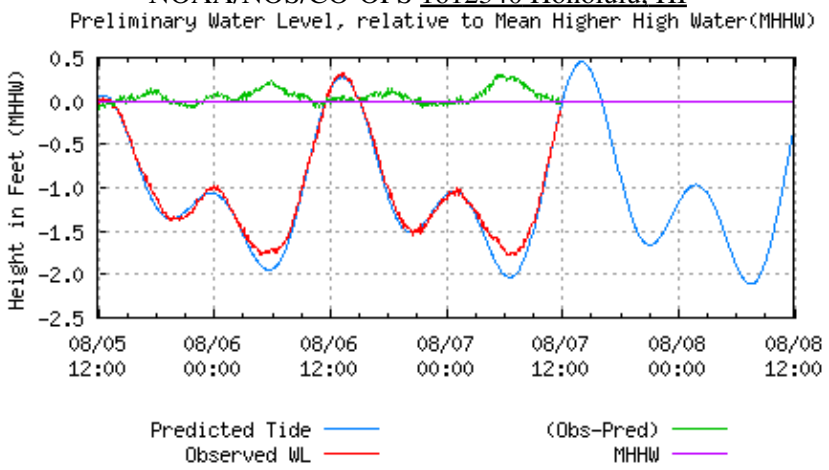
Wind Speed: 15 knots Gusts: 18 knots Direction: 52° T

NOAA/NOS/CO-OPS 1612480 Mokuoloe, HI



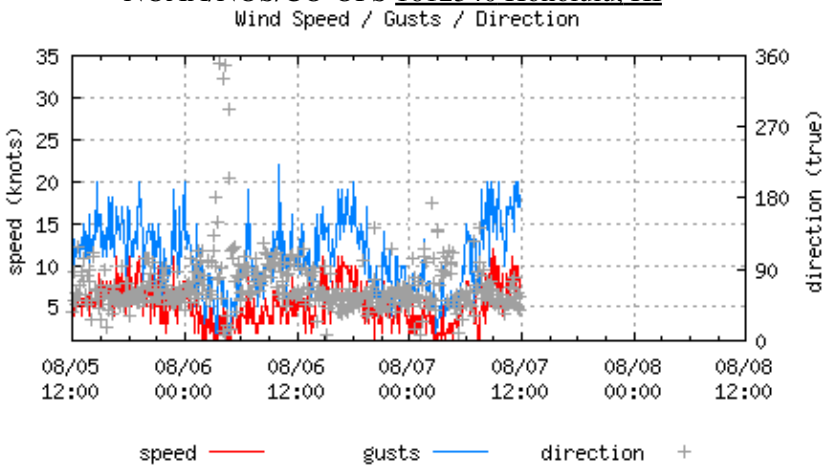
Last Observed Sample: 08/07/2014 11:48 (HST)
Barometric Pressure: 1016.8 mb

NOAA/NOS/CO-OPS 1612340 Honolulu, HI



Last Observed Sample: 08/07/2014 11:48 (HST). Data relative to MHHW
Observed: -0.11 ft. Predicted: -0.08 ft. Residual: -0.03 ft.
Historical Maximum Water Level: Feb 14 1967, 1.49 ft.
Next High Tide: 08/07/2014 14:01 (HST), 0.45 ft.

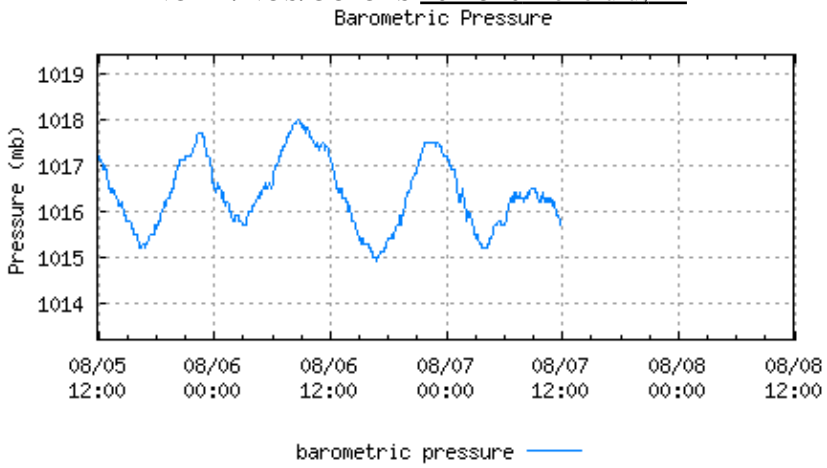
NOAA/NOS/CO-OPS 1612340 Honolulu, HI



Last Observed Sample: 08/07/2014 11:48 (HST)

Wind Speed: 8 knots Gusts: 17 knots Direction: 56° T

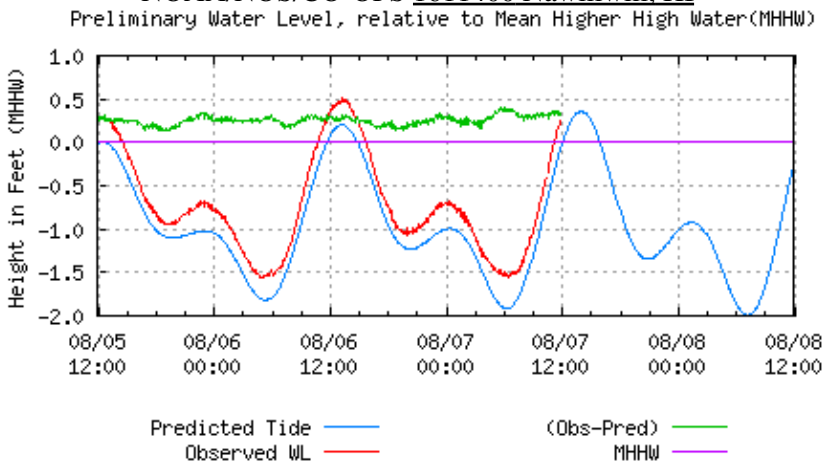
NOAA/NOS/CO-OPS 1612340 Honolulu, HI



Last Observed Sample: 08/07/2014 11:48 (HST)

Barometric Pressure: 1015.7 mb

NOAA/NOS/CO-OPS 1611400 Nawiliwili, HI



Last Observed Sample: 08/07/2014 11:48 (HST). Data relative to MHHW

Observed: 0.24 ft. Predicted: -0.07 ft. Residual: 0.31 ft.

Historical Maximum Water Level: Sep 11 1992, 3.15 ft.

Next High Tide: 08/07/2014 13:57 (HST), 0.36 ft.

Latest Water Level Observations on MHHW

Station ID	Station Name	Date/Time	Observed Water Level	Predicted Tide	Residual Water Level	24 Hour Maximum Storm Tide
1617760	Hilo, Hilo Bay, Kuhio Bay, HI	08/07/2014 11:48 (HST)	0.45 ft	0.05 ft	0.40 ft	0.49 ft
1617433	Kawaihae, HI	08/07/2014 11:48 (HST)	0.08 ft	-0.28 ft	0.36 ft	0.44 ft
1615680	Kahului, Kahului Harbor, HI	08/07/2014 11:48 (HST)	0.40 ft	0.15 ft	0.25 ft	0.40 ft
1612480	Mokuoloe, HI	08/07/2014 11:48 (HST)	0.16 ft	0.06 ft	0.10 ft	0.16 ft
1612340	Honolulu, HI	08/07/2014 11:48 (HST)	-0.11 ft	-0.08 ft	-0.03 ft	0.33 ft
1611400	Nawiliwili, HI	08/07/2014 11:48 (HST)	0.24 ft	-0.07 ft	0.31 ft	0.52 ft

Center for Operational Oceanographic Products & Services (CO-OPS) | National Ocean Service (NOS)
National Oceanic and Atmospheric Administration | U.S. Department of Commerce